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6108	61098 (flesh or skin) near (tone or color or colour or pigment or chroma\$6 or tint or hue or complexion) nad 382.clas.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	
36	560 (flesh or skin) near (tone or color or colour or pigment or chroma\$6 or tint or hue or complexion) and 382.clas.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	
27	271 ((flesh or skin) near (tone or color or colour or pigment or chroma\$6 or tint or hue or complexion) and 382.clas.) and (map or mapping or mapped or (transfer adj1 function) or mtf)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	
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08	807 (flesh or skin) near (tone or color or colour or pigment or chroma\$6 or tint or hue or complexion) and (382.clas. or 358.clas.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	

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38 ((flesh or skin) near (tone or color or colour or pigment or chroma\$6 or tint or hue or complexion) same (map or mapping or mapped or (transfer adj1 function) or mtf or transform or transform or transformation) same (correc\$6 or enhanc\$6 or improv\$6)) and (382.clas. or 358.clas. or 356.clas. or 358.clas. or 358.clas. or 358.clas. or 358.clas. or 358.clas. or	44 ((flesh or skin) near (tone or color or colour or pigment or chroma\$6 or tint or hue or complexion) same (map or mapping or mapped or (transfer adj 1 function) or mtf or transform\$6) same (correc\$6 or enhanc\$6 or improv\$6)) and (382.clas. or 356.clas. or 358.clas. or 356.clas. or 348.clas. or 396.clas.)	203 ((flesh or skin) near (tone or color or colour or pigment or chroma\$6 or tint or hue or complexion) and ((map or mapping or mapped or (transfer adj1 function) or mtf or transform\$6) same (correc\$6 or enhanc\$6 or improv\$6))) and (382.clas. or 358.clas. or 356.clas. or 348.clas. or 396.clas.) and @ad<20010702
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USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB		USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
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18 ((flesh or skin) near (tone or color or colour or pigment or chroma\$6 or tint or hue or complexion) and ((map or mapping or mapped or (transfer adj1 function) or mtf or transformation) same (correc\$6 or enhanc\$6 or improv\$6))) and (382.clas. or 358.clas. or 358.clas. or 358.clas. or 358.clas. or basclas. or 396.clas.) and @ad<20010702 and (face or head or facial) near (detect\$6 or recogn\$6 or locat\$6 or segment\$6 or locat\$6))	15 382/167.ccls. and (facial or head or face) near (detect\$6 or locat\$6 or recogn\$6 or segment\$6 or locat\$6)) and @ad<20010702	10 ("4203671" "5128711" "5585860" "5715377" "5850463" "5940530" "6072526" "6249317" "6343141" "6611613").PN.	3 ("5339365" "5384601" "6088475").PN.	2 6272239.URPN. 88 tone adj1 mapping	8 tone adj1 mapping and (flesh or skin) and @ad<20010702	97 ((tone or color) adj1 mapping) USPAT; US-PGPUB; and (flesh or skin) and EPO; JPO; DERWEN @ad<20010702 IBM_TDB

USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB		USPAT, US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
3 ((color adj1 correction) or (color adj1 transformation) or (tone adj1 mapping) or (color adj1 mapping)) and (noise adj1 issue) 354 ((color adj1 transformation) or (color adj1 transformation) or (tone adj1 mapping) or (color	adj1 mapping)) same (noise) 248 ((color adj1 correction) or (color adj1 transformation) or (tone adj1 mapping) same (noise) and @ad<20010702	4 ((Color adj 1 correction) or (color adj 1 transformation) or (tone adj 1 mapping) or (color adj 1 mapping)) and (histogram near (flatness or slope or uniformity or flat or derivative)) and @ad<20010702	6 ((color adj1 correction) or (color adj1 transformation) or (tone adj1 mapping) or (color adj1 mapping)) and (histogram near (flatness or slope or uniformity or flat or derivative or variation or smoothness)) and @ad<20010702	1 382/167.ccls. and (histogram near (flatness or slope or uniformity or flat or derivative or variation or smoothness)) and @ad<20010702	1 5528339.pn. and histogram

USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
1 5539523.pn. and (face or facial or head)	(automatic or unsupervised or USPAT; US-PGPUB; automated) near (color or tone EPO; JPO; DERWENT; or hue of chroma or chromaticity) near (enhanc\$6 or correc\$6 or restor\$6 or restor\$5 and @ad<20010702	31 ((automatic or unsupervised or automated) near (color or tone or hue of chroma or chromaticity) near (enhanc\$6 or correc\$6 or restor\$6 or reproduc\$6) and (flesh or skin)	6 (((automatic or unsupervised U or automated) near (color or tone or hue of chroma or chromaticity) near (enhanc\$6 or correc\$6 or restor\$6 or reproduc\$6) and @ad<20010702) and (flesh or skin) and (face or facial or head)	omatic or unsupervised or pmated) with (color or tone ue of chroma or pmaticity) with (enhanc\$6 orrec\$6 or restor\$6 or oduc\$6) and d<20010702
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171 ((automatic or unsupervised U or automated) with (color or E tone or hue of chroma or If chromaticity) with (enhanc\$6 or correc\$6 or restor\$6 or reproduc\$6) and (flesh or skin)	65 (((automatic or unsupervised U or automated) with (color or tone or hue of chroma or chromaticity) with (enhanc\$6 or correc\$6 or restor\$6 or reproduc\$6) and @ad<20010702) and (flesh or skin)) and (face or facial or head)	(US-6678407-\$).did. or (US-100010005222-\$).did.		19 (US-5539523-\$ or US-5528339-\$ or US-6272239-\$ or US-5828779-\$ or US-5130935-\$ or US-5130935-\$ or US-5130935-\$ or US-5828780-\$ or US-6690822-\$ or US-6670963-\$ or US-6594388-\$ or US-6377702-\$ or US-6269184-\$ or US-6141431-\$ or US-558366-\$).did. or (US-20010005222-\$ or US-20030152283-\$).did.
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8 ((US-5539523-\$ or US-5528339-\$ or US-5528339-\$ or US-6272239-\$ or US-582839-\$ or US-5130789-\$ or US-5828760-\$ or US-5828780-\$ or US-6690822-\$ or US-6670963-\$ or US-6148092-\$ or US-6141431-\$ or US-6141431-\$ or US-528366-\$).did. or (US-20010005222-\$ or US-20030152283-\$).did.) and contrast	5 ((US-5539523-\$ or US-5528339-\$ or US-5528339-\$ or US-6272239-\$ er US-5130935-\$ or US-5130789-\$ or US-5828780-\$ or US-5828780-\$ or US-6890822-\$ or US-6690822-\$ or US-670963-\$ or US-6141431-\$ or US-6141431-\$ or US-518066-\$). did. or (US-20010005222-\$ or US-20030152283-\$). did.) and resolution
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5 ((US-5539523-\$ or US-552839-\$ or US-6272239-\$ or US-5828779-\$ or US-5130935-\$ or US-5130935-\$ or US-5828780-\$ or US-6678407-\$ or US-5384601-\$ or US-6690822-\$ or US-6594388-\$ or US-6377702-\$ or US-629184-\$ or US-6141431-\$ or US-6141431-\$ or US-62010005222-\$ or US-20010005222-\$ or US-20030152283-\$).did.) and noise	chroma or tone of hue of chroma or chromaticity) near E (enhanc\$6 or correc\$6 or restor\$6 or restor\$6 or reproduc\$6)) same (map or mapping or transformation or transform or (transformation or transform or (transformation) or mtf) same noise and @ad<20010702	Cicolor or tone or hue of chroma or chromaticity) near (enhanc\$6 or correc\$6 or restor\$6 or reproduc\$6)) same (map or mapping or transformation or transform or (transfer adj1 function) or mtf) same noise same (flesh or skin) and @ad<20010702
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9 ((color or tone or hue of chroma or chromaticity) near (enhanc\$6 or correc\$6 or restor\$6 or reproduc\$6)) same (map or mapping or transformation or transform or (transfer adj1 function) or mtf) same noise and (flesh or skin) and @ad<20010702	transformation or transform or E transformation or transform or E (transfer adj1 function) or mtf) IE same (average with (color or colour or intensity or luminance or lightness or brightness)) and @ad<20010702	transformation or transform or E (transfer adj1 function) or mtf) le same (average with (color or colour or intensity or luminance or lightness or brightness) and @ad<20010702) and (((color or tone or hue of chroma or chromaticity) near (enhanc\$6 or correc\$6 or restor\$6 or reproduc\$6) same (map or mapping or transformation or transform or (transfer adj1 function) or mtf) and @ad<20010702)
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patent #	type	pub date	title	class1	class2	inventor	
US 20030152283 A1	US-PGPUB	20030814	20030814 IMAGE CORRECTION DEVICE, IMAGE CORRECTION METHOD AND COMPUTER PROGRAM PRODUCT IN MEMORY FOR IMAGE CORRECTION	382/274	382/168	MORIWAKI, KAGUMI	
US 6690822 B1	USPAT	20040210	20040210 Method for detecting skin color in a digital image	382/162	382/172; 382/228; 382/272; 382/283	Chen, Shoupu et al.	
US 6670963 B2	USPAT	20031230	20031230 Visual attention model	345/629	345/582; 345/589; 345/620; 382/164; 382/173; 382/180	Osberger, Wilfried M.	
US 6650771 B1	USPAT	20031118 Color incort	Color management system incorporating parameter control channels	382/162	382/302	Walker, Douglas G.	
US 6594388 B1	USPAT	20030715	20030715 Color image reproduction of 382/167 scenes with preferential color mapping and scenedependent tone scaling	382/167	358/520	Gindele, Edward B.	
US 6587225 B1	USPAT	20030701	20030701 Image processing apparatus	358/1.9	358/509; 358/516; 358/520	Sakatani, Kazuomi et al.	
US 6377702 B1	USPAT	20020423	20020423 Color cast detection and removal in digital images	382/167	358/522; 382/172	Cooper, Ted J.	
-	USPAT	20010731	20010731 Method and apparatus for interactive color transformation of color values between color spaces	382/167	345/604; 358/518	Spaulding, Kevin Edward et al.	
	USPAT	20001114	20001114 System for detecting skintone regions within an image	382/118	382/164; 382/190	Qian, Richard	
US 6141431 A	USPAT	20001031	20001031 Image processing apparatus	382/100	348/597; 434/371; 434/94	Munetsugu, Toshihiko et al.	

Ellson, Richard N. et al.	Nakai, Yoshiyuki et al.	Buhr, John D. et al.	Colla, Federica et al.	Maggioni, Christoph	Takiguchi, Hideo	Dobbs, Christopher M. et al.	Lin, Qian et al.
345/603; 345/604; 348/652; 358/504; 358/522; 358/523; 358/524; 358/525; 358/538	358/504; 358/518; 358/527; 382/118; 382/165; 382/190		362/171	382/164; 382/225	356/407; 358/518	358/520	382/274; 396/158
358/518	358/296	355/32	382/167	382/165	382/167	358/500	382/167
19961210 Method for cross-device color calibration and enhancement using explicit constraints	19960723 Image forming device making color corrections on stored image data	Color image reproduction of 355/32 scenes with color enhancement and preferential tone mapping	20010807 Digital image color correction device and method employing fuzzy logic	19981027 Method for constructing a color table in a computer unit for the classification of picture elements in an image	Color image processing apparatus for extracting image data having predetermined color information from among inputted image data and for correcting inputted image data in response to the extracted image data	19920714 Localized image recoloring using ellipsoid boundary function	20021121 Image enhancement using face detection
19961210 N	19960723	19960618 Color scene enhar prefer	20010807	19981027 n	19920714 Color appar image image prede inform input. Correct c	19920714 L u	20021121 11
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US 5583666 A	US 5539523 A	US 5528339 A	US 6272239 B1	US 5828779 A	US 5130935 A	US 5130789 A	US 20020172419 A1

Tajima, Johji	Yamashita, Haruo et al.	Yamaguchi, Yoshihiro	Suzuki, Hiroaki et al.	Gindele, Edward B. et al.
358/518; 358/523; 382/165	348/647; 348/652; Yamashita, Haruo et 358/520 al.	348/586; 348/652; 382/115	358/518	358/1.2
382/167	348/577	348/223.1	382/167	382/112
20040113 Method and device of light 382/167 source discrimination, skin color correction, and color image correction, and storage medium thereof capable of being read by computer	19950124 Color adjustment apparatus 348/577 for automatically changing colors	20010628 Identification photo system 348/223.1 and image processing method	19981027 Image processing apparatus with improved color correction	20040608 Method for varying the number, size, and magnification of photographic prints based on image emphasis and appeal
20040113	19950124	20010628	19981027	20040608
USPAT	USPAT	US-PGPUB	USPAT	USPAT
US 6678407 B1	US 5384601 A	US 20010005222 A1 US-PGPUB	US 5828780 A	US 6748097 B1

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